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FULFILLMENT AND NONFULFILLMENT OF 1953 PLANS IN SOVIET MACHINE TOOL BUILDING

PROGRESS IN MACHINE-TOOL BUILDING -- Moscow, Pravda, 16 Aug 53

In the first $2\frac{1}{2}$ years of the Fifth Five-Year Plan, the Soviet metalworking industry has received more than 300 types of new machine tools and presses and forging machines. In 1953 alone, enterprises of the Main Administration of the Machine-Tool-Building Industry, Ministry of Machine Building, have developed about 50 new types of machine tools. The machine tools already have been tested and accepted by commissions. The production of machine tools of earlier designs has increased 12-15 percent.

In 1953, enterprises of the main administration are faced with the task of mastering to an even greater extent the production of high-speed machine tools, including not only lathes, but also grinding, milling, gear-cutting, and other machine tools.

In the second half of 1953, eight new types of woodworking machines will be built for the woodworking industry, including the first unit-type planing machine, which will finish a board on four sides simultaneously.

Moscow, Komsomol'skaya Pravda, 27 Sep 53

On 25 September, A. E. Prokopovich, a Stalin Prize winner, gave a lecture at the Central Lecturing Hall of the All-Union Society for the Propagation of Polytechnic and Scientific Knowledge. He dedicated his speech to the technical progress in machine-tool building during the Fifth Five-Year Plan.

Soviet machine-tool builders have developed tens of thousands of various machines and mechanisms. Special attention has been given to the development of heavy and precision machine tool building. For example, the new Model 1682 lathe can machine parts up to 3 meters in diameter, more than 30 meters long, and 170 tons in weight.

-1-

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A vertical boring and turning mill was perfected recently. Its working table is 100 meters in area. Even larger vertical boring and turning mills are now in production.

In 1952, more than 140 models of universal and specialized machine tools were perfected.

At present, equipment is being developed for the automatized machining of a number of consumer items.

BUILD NINE NEW MODELS OF MACHINE TOOLS -- Kishinev, Sovetskaya Moldaviya, 7 Aug 53

The Moscow Machine-Tool-Building Plant imeni Ordzhonikidze has built nine new models of machine tools since the beginning of 1955. These models include high-speed bar-type automatics, four-spindle cut-off automatics, special machine tools for the petroleum industry, and new-design universal multitool semiautematics.

The plant also has mastered the production of heavy boring machines weighing more than 60 tons.

ACHIEVEMENTS AT VITEBSK PLANTS -- Stalinabad, Kommunist Tadzhikistana, 14 Aug 53

The Vitebsk Machine-Tool-Building Plant imeni Kirov has celebrated its 35th anniversary.

In the postuar years alone, the plant mastered the production of $30~\rm new$ types of metal-cutting and stone-processing machines.

Labor consumption in the manufacture of each machine tool has been reduced on an average of 600 hours as compared with 1952.

Minsk, Sovetskaya Belorussiya, 15 Aug 53

In accordance with the directives of the 19th Party Congress, the Vitabsk Machine-Tool-Building Plant imeni Komintern is taking a number of measures to improve the design of machine tools it manufactures. It is working on the introduction of an advanced technological process; on supplementing its production with special high-production accessories; on using new types of cutting tools and measuring and checking instruments; and on improving the methods and quality of controlling products.

Besides producing series-produced machine tools, the plant also manufactures special machine tools in small groups.

The plant fulfilled its program for 1952 and first half of 1953 ahead of schedule in gross and commodity production and in quantity of machine tools produced. The plant also fulfilled its products-list plan and the plan for the manufacture of special and new models of machine tools for this period. In 1952, the its monthly quota in the last third of the month. This situation has been improved in 1953, however, by more accurate erganization of the production process and by an improvement in the quality of machine tools manufactured.



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Formerly, the plant had serious shortcomings in the organization of production for new machine tools. Now, the work of the Division of the Chief Technologist has been organized according to a schedule so that work in the modernization of the technological process of manufacturing series-produced muchine tools is carried on simultaneously with the development of technical documentation for new models.

Close ties have been established between the manufacturing plant and consumer plants. On the basis of their reports, the manufacturing plant incorporates changes in the design of its machine tools. For example, it recently changed the design of its nut-threading automatics.

Work at the foundry has been improved. Until recently, rejects here reached 30-40 percent. A new technology was developed for the manufacture of the column for radial drilling machines. Instead of vertical molding of this part, it is now horizontally molded and jects have been decreased to 4-7 percent.

Sometimes the grinding of holes in gears after heat treatment produced rejects. By introducing high-frequency-current hardening of gears, the need for grinding the holes was climinated.

A great deal of attention is being given at the plant to providing the Division of Technical Control with a full complement of qualified personnel. Formerly, there were many sections staffed with untrained workers. These workers now have been replaced by technicians. -- I. Nikanorov, director, Vitebsk Machine-Tool-Building Plant imeni Komintern

INCREASES 1953 OUTPUT OF MACHINE TOOLS -- Tbilisi, Zarya Vostoka, 16 Aug 53

The Tbilisi Machine-Tool-Building Plant imeni Kirov increased its output of metal-cutting machine tools in the first half of 1953 by 9.1 percent as compared with the same period of 1952.

MOSCOW PLANT LOWERS COSTS -- Moscow, Moskovskiy Komsomolets, 19 Aug 53

In 7 months of 1953 the Moscow Krasnyy Proletariy Plant lowered the cost of manufacturing its products by 5.1 percent as compared with 1952. Its assignment was to reduce this cost by 3.8 percent.

Since the beginning of the year, the plant has manufactured and introduced in production about 1,400 new high-production dies and attachments. Two new conveyer lines for assembling and pointing screw-cutting lathes have been put into operation.

By lowering the cost of manufacturing its product in excess of plan, the enterprise made 15.2 percent profit in excess of plan in the first half of 1953.

FAILS TO FULFILL STATE PLAN -- Vil'nyus, Sovetskaya Litva, 27 Aug 53

The Vil'nyus Zhal'giris Machine-Tool-Building Plant failed by 21 percent to fulfill the state plan.

Glavstankoprom (Main Administration of Machine Tool Building Industry) and the Ministry of Machine Building has not been giving the plant adequate assistance. The plant does not have a full complement of machine-tool-building personnel. The technical equipment for producing milling machines according to plan is inadequate. There is a big shortuge of skilled workers, engineers, and technicians at the plant. -- V. I. Pashko

- 3 -CONFIDENTIAL

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TRIPLES PRODUCTION IN 2 YEARS -- Minsk, Sovetskaya Belorussiya, 29 Aug 53

The Kramatorsk Heavy-Machine-Tool-Building Plant is now producing heavy machine tools at three times the 1951 rate.

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